



GUIDELINES

GUIDELINE F.06 – RESIDENTIAL FIRE SPRINKLER REQUIREMENTS

F.06.1 PURPOSE

The purpose of this guideline is to provide information and requirements for the design and installation of residential fire sprinklers in one and two family dwellings in accordance with the provisions of the California Fire Code (CFC), California Building Code (CBC) and National Fire Protection Association (NFPA) Standard 13D.

F.06.2 SCOPE

This guideline shall apply to all portions of a residential fire sprinkler system in one and two family dwellings.

F.06.3 DEFINITIONS

None

F.06.4 PERMITS REQUIRED

An encroachment permit for the fire sprinkler water meter is required from the City of Newport Beach Public Works Department prior to the approval of the fire sprinkler plans.

A permit from the City of Newport Beach Community Development Department is required for the installation of a residential fire sprinkler system.

- Two sets of fire sprinkler plans, cut sheets, and calculations shall be submitted to the Community Development Department.
- Minimum size of plan is 18" x 24".
- Plans shall be legible, scaled to nationally recognized standards, and printed as blue line or black line drawing.
- A current flow test data report (dated within six months) shall be printed on the plans. Contact the City of Newport Beach Public Works Department at (949) 644-3311 to schedule a test.

Exception: Alterations or additions to an existing system that was installed in accordance with NFPA 13D, and the alteration/addition does not exceed 50% of the existing square footage of the residence within the immediate past 24 months. The water pressure indicated on the existing system's water pressure gauge may be used.



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- The Architect or Engineer of Record shall review the sprinkler plans to assure coordination with other trades and building elements. Consideration should be given to: lights, interior design, plumbing, ductwork, structural methods or attachment for sprinkler piping, and loads/impacts on structural components.

F.06.5 PROCEDURE

TITLE PAGE REQUIREMENTS

- List the applicable codes and standards used for the system design.
- List the project location including the full legal address of the facility, and building number(s), if any.
- Sprinkler drawings must be prepared, stamped and signed by a licensed civil, mechanical, or fire protection engineer or by a licensed sprinkler contractor holding a valid C-16 license.
- Specify the name, license number, address, and phone number of the preparer of the sprinkler drawings.

RISER ASSEMBLY DESIGN

The riser assembly design shall be in accordance with the following diagram and must include the following components:

- Main control valve, which controls the sprinkler system & domestic water supply.
- Domestic water supply valve, which controls the domestic water supply only.
- Pressure Gauge
- Check valve
- Water flow switch
- Test/drain valve



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SINGLE-FAMILY – SPRINKLER RISER ASSEMBLY

